

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/005170 A1

(51) International Patent Classification⁷: B65G 65/46, 33/26

(21) International Application Number:
PCT/IB2003/002708

(22) International Filing Date: 8 July 2003 (08.07.2003)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
MO2002A000199 9 July 2002 (09.07.2002) IT

(71) Applicant (for all designated States except US): TECNO-
GEN S.R.L. [IT/IT]; Via Dos De La Roda, 64, I-38057
Pergine Valsugana (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): GENTILI, Paolo
[IT/IT]; Via Marighetto, 104, I-38100 Trento (IT).

(74) Agent: CRUGNOLA, Pietro; Luppi Crugnola Bergamini
& Partners s.r.l., Viale Corassori, 54, I-41100 Modena (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

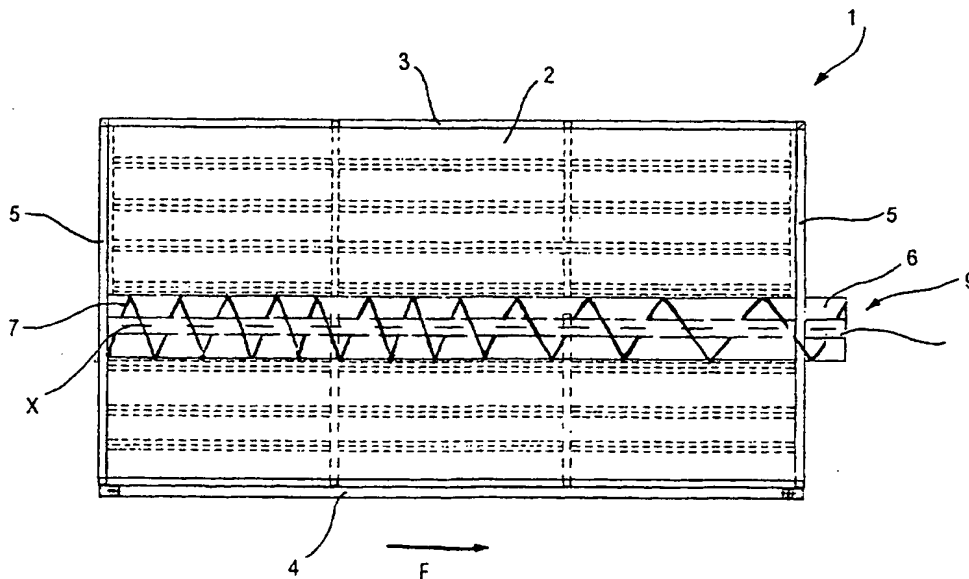
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii)) for the following designations AE,
AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES,
FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH.

[Continued on next page]

(54) Title: APPARATUS FOR CONVEYING FRUITS AND VEGETABLES



(57) Abstract: An apparatus for conveying fruit and vegetable products, particularly grapes, comprises hopper means (2) suitable for receiving said products and screw-feeder means (6) suitable for conveying said products towards an outlet zone (9), said screw-feeder means (6) having variable pitch (p1, p2, p3, p4). It is further provided the use of screw-feeder means (6) with variable pitch for conveying fruit and vegetable products, particularly grapes.